

**MINUTES OF MEETING OF
BOARD OF ELECTRICAL APPEALS**

June 10, 2008 - 3:00 p.m.

**OFFICE OF CENTRAL INSPECTION
CITY HALL, 455 NORTH MAIN
OCI CONFERENCE ROOM, 7th FLOOR**

Board member John Whittit called the meeting to order at 3:33 pm, with Board members, Dale Johnson, Dave Urban, Shane Chapman and Secretary Tom Kerschen present. Also present was City attorney Sharon Dickgrafe and electrical inspectors Steve Schauner and Chris Nordick. Board members Scott Alder, Roy Meinhardt and Harold Ragland were absent.

The minutes of the May 13, 2008 special meeting were read. Board member Urban made a motion the minutes be approved as written, it was seconded by Board member Johnson and approved.

The recent examination results from Prometric for electrical examinations administered by their office for City of Wichita approved applicants were presented to the Board. The results were as follows:

APPLICANT NAME	APPLICANT NUMBER	EXAMINATION CLASSIFICATION	EXAMINATION RESULT
David Gaddie	7064	Master	Passed
Jerry Querbach	5643	Master	Failed
Christopher Baker	9289	Journeyman	Passed
Sirr Harryman	9110	Journeyman	Failed
Richard Pfannenstiel	8322	Journeyman	Failed

Three (3) Master Electrician and five (5) Journeyman Electrician applications were reviewed for approval to be administered the appropriate examination for certification. The results were as follows:

NAME	NUMBER	CLASSIFICATION	ACTION
Stephen Koehn	0817	Master	Approved
Jonathan Dougherty	3860	Master	Approved
Phillip Cowan	3745	Master	Approved
Richard Pfannenstiel	8322	Journeyman	Approved
Steve Linnebur	4993	Journeyman	Approved
Jeremy Kelley	2884	Journeyman	Approved
Shawn Williamson	1226	Journeyman	Approved
Charles Gray	4312	Journeyman	Approved

Under part A of the new business section of the agenda, the Board reviewed the proposed changes in Title 19 of the City ordinance. Most of the changes are to clarify the intent or to add in the ordinance items that are enforced in Central Inspection by policy at the current time. The installation standard portion of the ordinance is written to adopt the 2008 National Electrical Code (NEC) as published with the exception of the following sections:

Section 110.16; Section 200.6(d); Section 210.4(b); Section 210.5(c); Section 210.52(c)(1); Section 230.40; Section 250.68(a) Exception No. 2; Section 590.6(b)(2); Section 300.11(a)(2); Section 314.28; Section 334.10; Section 334.12(a)(1) Exception; Section 334.40(b); Section 334.80; Section 406.4(e); Section 406.8(b)(1)&(2); Section 600.3; and Section 680.8.

The amendments to the sections in the NEC and in the existing City ordinance that are significant are as follows:

“Concrete-Encased electrode. The grounding electrode conductor to a concrete-encased electrode shall be not less than that required in Table 250.66 of the National Electrical Code.”

“Color code. Where installed in raceways, as cable or as open work, all conductors connected to the same system shall conform to the following color code:

Three-phase, four-wire 120/208 volt – phase A - black, phase B - red, phase C – blue, grounded conductor - white;

Three-phase, four-wire 277/480 volt—phase A - brown, phase B - orange, phase C – yellow, grounded conductor - gray.

The grounded conductor of a three wire 240 volt delta system shall be identified by alternating white and red stripes encircling the conductor.

The grounded conductor of a three wire 480 volt delta system shall be identified by alternating gray and orange stripes encircling the conductor.

Ungrounded circuit conductors used as travelers between 3-way and 4-way switches may be of colors other than those specified.

All conductor sizes 6 AWG or smaller shall be identified by a continuous outer finish along its entire length. Sizes larger than 6AWG shall be identified, at time of installation, by distinctive color markings at its terminations. This marking shall encircle the conductor or insulation.

All circuit conductors of the same color shall be connected to the same ungrounded conductor throughout the premises wiring system(s).”

“Type NM, NMC and NMS cable ampacity. The ampacity of Types NM, NMC, and NMS cable shall be determined in accordance with 310.16. The ampacity shall be in accordance with the 60°C (140°F) conductor temperature rating.”

“Type NM, NMC and NMS cable ran exposed in unfinished basements. Article 334.15(c) of the National Electrical Code shall be amended to read:

(C) In Unfinished Basements. Where cable is run at angles with joists in unfinished basements, it shall be permissible to secure cables not smaller than two 6 AWG or three 8 AWG conductors directly to the lower edges of the joists. Smaller cables shall be run either through bored holes in joists or on running boards. NM cable installed on the wall of an unfinished basement shall be permitted to be installed in a listed conduit or tubing or shall be protected in accordance with Article 300.4. Conduit or tubing shall be provided with a suitable insulating bushing or adapter at the point the cable enters the raceway. The NM cable sheath shall extend through the conduit or tubing and into the outlet or device box not less than 6 mm (1/4 in.). The cable shall be secured within 300 mm (12 in.) of the point where the cable enters the conduit or tubing. Metal conduit, tubing, and metal outlet boxes shall be connected to the equipment grounding conductor.”

“Sewage ejector pumps and sump pumps. In a dwelling, ground fault circuit interrupter protection shall not be required on a sewage ejector pump or sump pump that is cord and plug connected to a single receptacle installed on a dedicated circuit.”

“Receptacles in wet locations. Section 406.8(B)(1) & (2) of the National Electrical Code shall be amended to read as follows:

(B) Wet Locations. All 15- and 20-ampere, 125- and 250-volt nonlocking receptacles shall be listed weather-resistant type. All receptacles installed in a wet location shall comply with either of the following:

(1) A receptacle installed in a wet location, where the product intended to be plugged into it is not attended while in use, shall have an enclosure that is weatherproof with the attachment plug cap inserted or removed.

(2) A receptacle installed in a wet location where the product intended to be plugged into it will be attended while in use (e.g., portable tools) shall have an enclosure that is weatherproof when the attachment plug is removed.”

“Pools shall not be located under overhead wiring. Section 680.8 of the National Electrical Code shall be amended to read as follows:

The following parts of pools shall not be placed under existing electrical, communication, CATV, Network powered Broadband conductors or any other overhead wiring; nor shall such wiring be installed above the following:

- (1) Pools and the area extending 10 ft horizontally from the inside of the walls of the pool,
- (2) Diving structure, or
- (3) Observation stands, towers or platforms.”

“Conduits exposed to sunlight on rooftops. Where conductors or cables are installed in conduits with a horizontal length exceeding 6 feet and exposed to direct sunlight on or above rooftops, the adjustments shown in Table 310.15(B)(2)(c) shall be added to the outdoor temperature to determine the applicable ambient temperature for application of the correction factors in Table 310.16 and Table 310.18 of the National Electrical Code.”

“Elevators’ certificates—Application—Examination—Renewal. Removal of the paragraph stating “Any applicant submitting satisfactory proof of having been engaged in the trade of elevator installation or repair for a minimum of two years between January 1, 2002 and January 1, 2006 and who has demonstrated sufficient ability to comply with this code shall upon approval of the board and payment of the required fee be issued a certificate without written examination.”

“Alterations and repairs. The following alterations and/or repairs require permits from the Office of Central Inspection: Added items (30) replacement, addition or removal of canopy, wall or floor covering and (32) prior to placing an elevator back in service after it has been red tagged.”

“Elevator inspected prior to use. All new and red tagged elevators shall be inspected and approved prior to use by the public. The elevator contractor shall notify the elevator inspector two business days before the elevator is ready for inspection.

When the elevator inspector observes or it is called to his attention that any elevator work is installed contrary to or in violation of any provisions of this code, it shall be his duty to immediately notify the person responsible for the installation that the violation or violations exist. All defective or substandard installations shall be corrected within forty-eight hours from time of notification by the elevator inspector.”

Board member Johnson made a motion to accept the proposed amendments, as modified during this meeting, to Title 19 and to recommend to City Council the revisions be adopted into the City Ordinance. This motion was seconded by Board member Urban and unanimously approved.

With no other business to conduct, Board member Urban made a motion to adjourn. Board member Chapman seconded the motion and the meeting adjourned.

The time was 5:37 pm.

Tom Kerschen, Secretary,
Board of Electrical Appeals